

PATENT
P56904**IN THE CLAIMS**

Please amend claims 16 and 17 are follows:

- 1 1. (Previously Presented) An organic light emitting diode (OLED), comprising:
2 a substrate having a first electrode layer formed thereon;
3 an insulator layer formed on the substrate and forming a channel in a predetermined
4 pattern;
5 an organic polymer layer formed based on the channel and having at least an emission
6 layer;
7 a barrier formed at either side of the insulator layer for preventing ink for the organic
8 polymer layer from running out of the channel; and
9 a second electrode layer formed on the organic polymer layer.
- 1 2. (Original) The OLED according to claim 1, wherein the barrier extends
2 lengthwise in a direction perpendicular to the channel.
- 1 3. (Original) The OLED according to claim 1, wherein the barrier extends
2 lengthwise in a direction inclined with respect to the channel.
- 1 4. (Original) The OLED according to claim 1, wherein the barrier is spaced by a
2 predetermined distance from a lateral surface of a neighboring insulator layer.

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1 5. (Original) The OLED according to claim 1, wherein the barrier extends to a
2 lateral surface of a neighboring insulator layer.

1 6. (Previously Presented) The OLED according to claim 1, wherein the barrier
2 comprises:

3 at least one first barrier for preventing the polymer ink from running out of the
4 channel; and

5 at least one second barrier for preventing the polymer ink from running in from
6 neighboring channels.

1 7. (Original) The OLED according to claim 6, wherein the first and second barriers
2 incline lengthwise with respect to the channel, the first and second barriers extending in
3 opposite directions.

1 8. (Original) The OLED according to claim 7, wherein the first barrier extends
2 lengthwise toward a center of the channel, and the second barrier extends outward from the
3 channel.

1 9. (Original) The OLED according to claim 1, wherein a height of the barrier is no
2 less than 50 nm and no greater than the height of the insulator layer.

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1 10. (Previously Presented) The OLED according to claim 1, further comprising at
2 least one blocking member for interrupting outflow of the organic polymer layer and
3 provided substantially at a center of two ends of each channel.

1 11. (Previously Presented) The OLED according to claim 10, wherein a shape of
2 said at least one blocking member is one of a cuboid, a cylinder, a pyramid, a wedge and a
3 V-shape.

1 12. (Previously Presented) The OLED according to claim 11, wherein said at least
2 one blocking member includes at least two elements in a wedge shape, centers of the wedge
3 being opposite to each other.

1 13. (Previously Presented) The OLED according to claim 10, wherein a width of
2 said at least one blocking member is no greater than a width of the channel.

1 14. (Original) The OLED according to claim 10, wherein a height of the barrier is
2 no less than 50 nm and no greater than a height of the insulator layer.

1 15. (Original) The OLED according to claim 1, wherein the polymer organic layer
2 is formed by coating a liquid polymer organic material along the channel by inkjet printing.

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1 16. (Currently Amended) The OLED according to claim 1, wherein the barrier is
2 formed on the insulator layer and extends outwardly from at least one of two sides of the
3 insulator layer for preventing ink for the organic polymer layer from running out of the
4 channel.

1 17. (Currently Amended) An organic light emitting diode (OLED), comprising:
2 a substrate having a first electrode layer formed thereon;
3 an insulator layer formed on the substrate and forming a channel in a predetermined
4 pattern;
5 an organic polymer layer formed based on the channel and having at least an emission
6 layer;
7 a barrier formed on the insulator layer; and
8 a second electrode layer formed on the organic polymer layer;
9 wherein the barrier comprises at least one first barrier for preventing ink for the
10 organic polymer layer from running out of the channel[[:]] and at least one second barrier for
11 preventing the ink from running in from neighboring channels.

1 18. (Previously Presented) The OLED according to claim 17, wherein the first and
2 second barriers incline lengthwise with respect to the channel, the first and second barriers
3 extending in opposite directions.

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1 19. (Previously Presented) The OLED according to claim 18, wherein the first
2 barrier extends lengthwise toward a center of the channel, and the second barrier extends
3 outward from the channel.

1 20. (Previously Presented) An organic light emitting diode (OLED), comprising:
2 a substrate having a first electrode layer formed thereon;
3 an insulator layer formed on the substrate and forming a channel in a predetermined
4 pattern;
5 an organic polymer layer formed based on the channel and having at least an emission
6 layer;
7 a barrier formed on the insulator layer for preventing ink for the organic polymer layer
8 from running out of the channel;
9 a second electrode layer formed on the organic polymer layer; and
10 at least one blocking member for interrupting outflow of the organic polymer layer
11 and provided substantially at a center of two ends of each channel;
12 wherein said at least one blocking member includes at least two elements in a wedge
13 shape, centers of the wedge being opposite to each other.